CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.10/RM/CSR.2/753b/CEMENT/2014-15 Date: 04.02.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. R. Madhusudan,** Contractor, Bangalore.
*NAME OF THE WORK	:	Construction of Rangamandira Building in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/451/3/2014-15 Dated: 02.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.02.2015
PERIOD OF TESTING	:	02.02.2015 to 04.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	495 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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AE10

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Job No.: CTCE/BBMP/W.No.10/RM/CSR.2/753b/SAND-Gradation/2014-15 : 04.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. R. Madhusudan,** Contractor, Bangalore.

* **Name of Work** : Construction of Rangamandira Building in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/451/3/2014-15 Dated: 02.02.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.02.2015

Date of Testing : 04.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.68	90-100	90-100	90-100	95-100
2.36	80.94	60-95	75-100	85-100	95-100
1.18	55.11	30-70	55-90	75-100	90-100
600 Micron	26.46	15-34	35-59	60-79	80-100
300 Micron	13.29	5-20	8-30	12-40	15-50
150 Micron	6.46	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.10/RM/CSR.2/753b/AGG/GR/2014-15 : 04.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. R. Madhusudan,** Contractor, Bangalore.
* Name of Work	: Construction of Rangamandira Building in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/451/3/2014-15 Dated: 02.02.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 02.02.2015
Date of Testing	: 04.02.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.58	95-100	85-100
20	68.90	30-70	0-20
10	31.45	10-35	0-5
4.75	4.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.10/RM/STEEL/2014-15 05.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. R. Madhusudan,** Contractor, Bangalore.
Name of the work	:	Construction of Rangamandira Building in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/451/3/2014-15 Dated: 02.02.2015
Date of Test	:	05.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.20	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/RM/STEEL/2014-15 05.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. R. Madhusudan,** Contractor, Bangalore.
Name of the work	:	Construction of Rangamandira Building in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/451/3/2014-15 Dated: 02.02.2015
Date of Test	:	05.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.55	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/RM/CSR.2/753b/CUBE/2014-15 19.02.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Client** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. R. Madhusudan,** Contractor, Bangalore.

* **Name of the work** : Construction of Rangamandira Building in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Reference** : AEE/BBMP/VSD/PR/451/3/2014-15 Dated: 02.02.2015

* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as o : 7^{th} day

Sample Received on : 12.02.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.02.2015	19.02.2015	8.263	327.4	14.55
2	12.02.2015	19.02.2015	8.475	352.6	15.67
3	12.02.2015	19.02.2015	8.312	346.2	15.39

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